

$$\{(1,2)(1,3)(2,2)(2,3)(3,2)(3,3)\} - \{(2,2)(2,3)(3,2)(3,3)\} = \{(1,2)(1,3)\}$$

جواب

الف)

$$m+2=m^2$$

$$m^2-m-2=0$$

$$m=-1 \checkmark$$

$$m=2 \checkmark$$

ب)

$$m^2=m+2$$

$$m^2-m-2=0$$

$$m=-1 \checkmark$$

$$m=2 \checkmark$$

هیچ مقدار

$$\begin{cases} x=1 \Rightarrow x^2-1=d-1=0 \\ x=1 \Rightarrow a+b=0 \end{cases}$$

$$x=2 \Rightarrow \begin{cases} 2a+b=1 \\ a+b=0 \end{cases} \Rightarrow \begin{matrix} a=1 \\ b=-1 \end{matrix} \Rightarrow axb = -4$$

$$pk - v = f - vk$$

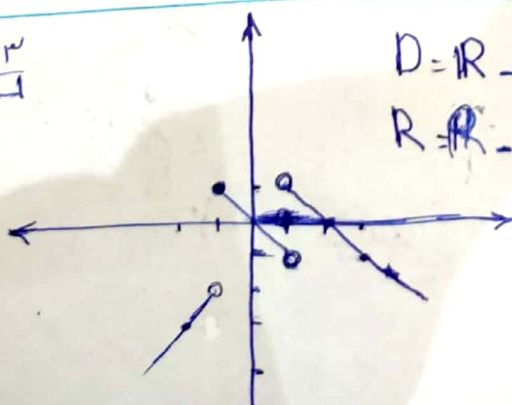
$$dk = v$$

$$k = \frac{v}{\omega} = 1, f$$

$$-x+2 \rightarrow \begin{array}{c|c|c|c} x & 1 & 2 & 0 \\ \hline y & 1 & 0 & -1 \end{array}$$

$$-x \rightarrow \begin{array}{c|c|c|c} x & -1 & 0 & 1 \\ \hline y & 1 & 0 & -1 \end{array}$$

$$x=1 \rightarrow \begin{array}{c|c|c|c} x & 1 & -2 & -3 \\ \hline y & 1 & -2 & -3 \end{array}$$



$$D = \mathbb{R} - \{1\}$$

$$R = \mathbb{R} - (1, +\infty)$$

$$x^3 + x^2 + 1 = 0 \rightarrow y^3 = -\frac{x^2-1}{x} \xrightarrow{\text{تفاضل}} y_1 = y_2 \quad \checkmark \text{تابع است}$$

ب) تابع است

$$a) \frac{x-1}{x-2} \geq 0$$

$$\frac{1}{x-2} + \frac{1}{x-1}$$

$$\frac{1-x}{x} \geq 0$$

$$\frac{0}{-x+1} + \frac{1}{x}$$

$\Rightarrow D: (0,1)$



$$\rightarrow \sqrt{x+4y-1} = \sqrt{x}$$

$$(\sqrt{y-1}) = (\sqrt{x+4y-1})$$

$$y-1 = x - 2\sqrt{x} + x$$

$$y = -2\sqrt{x} + x + 1$$

$$D = \mathbb{R}$$

$$x^2 - 7x + 4 \geq 0$$

$$x^2 - 10x + 14 \geq 0$$

$$x = 1, x = 4$$

$$D = [1, 4] \cup [4, 14]$$

$$\frac{1}{x-1} + \frac{1}{x-4}$$

$$D = [1, 4] \cup [4, 14]$$

$$الف) \rightarrow D = [9, 14]$$

$$x^2 - 7x + 4 \geq 0 \rightarrow \frac{1}{x-1} + \frac{1}{x-4}$$

$$x = 1, x = 4$$

$$D = [1, 4] \cup [4, 14]$$

$$x^2 - 7x + 4 \geq 0 \rightarrow \frac{1}{x-1} + \frac{1}{x-4}$$

$$x = 1, x = 4$$

$$D = [1, 4] \cup [4, 14]$$

$$الف) x^2 - 7x + 4 \geq 0 \rightarrow \frac{1}{x-1} + \frac{1}{x-4}$$

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$$x^2 - 7x + 4 \geq 0 \rightarrow \frac{1}{x-1} + \frac{1}{x-4}$$

$$x = 1, x = 4$$

$$D = [1, 4] \cup [4, 14]$$

